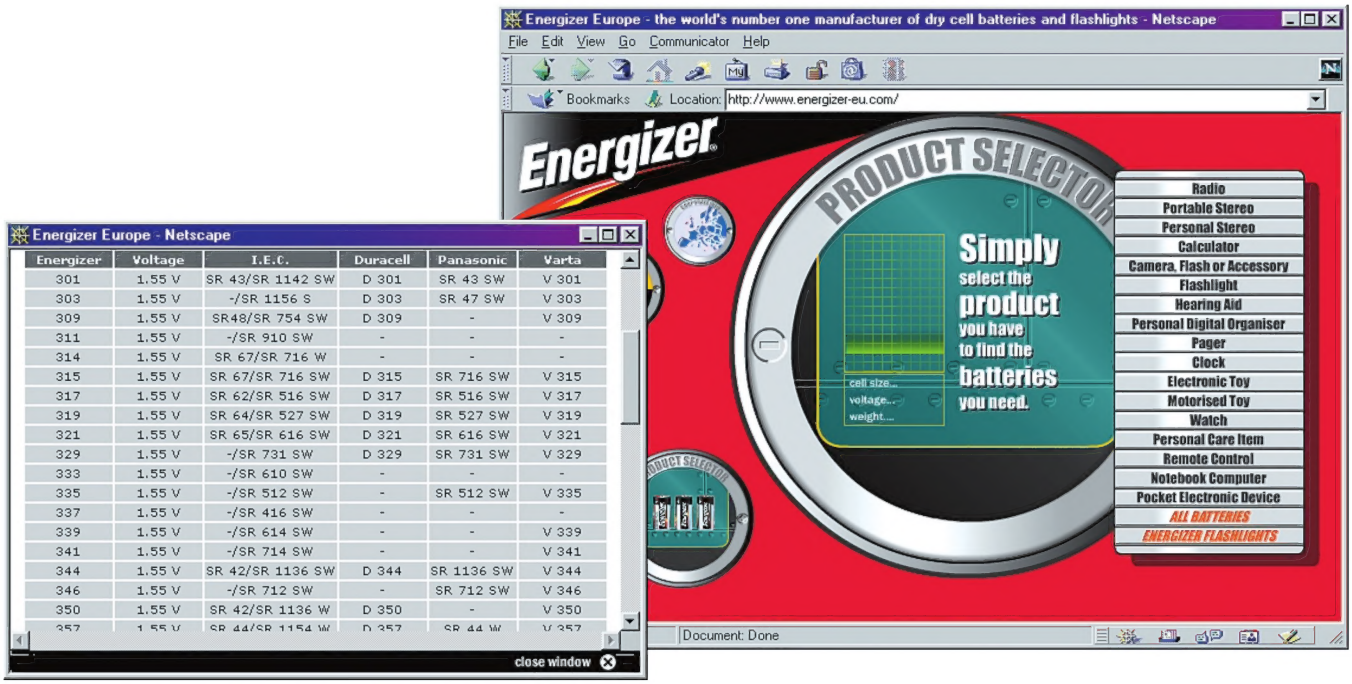
# Battery Selection Charts

## find the right type

**Electric torches, watches, pocket calculators, toys and personal stereos, they all need a particular type of battery to do their job. In some cases, it is surprisingly hard to find fresh ones when the original batteries are exhausted. Fortunately, battery manufacturers offer help — via the web.**




| Energizer | Voltage | I.E.C. | Duracell | Panasonic | Varta |
|---|---|---|---|---|---|
| 301 | 1.55 V | SR 43/SR 1142 SW | D 301 | SR 43 SW | V 301 |
| 303 | 1.55 V | -/SR 1156 S | D 303 | SR 47 SW | V 303 |
| 309 | 1.55 V | SR48/SR 754 SW | D 309 | - | V 309 |
| 311 | 1.55 V | -/SR 910 SW | - | - | - |
| 314 | 1.55 V | SR 67/SR 716 W | - | - | - |
| 315 | 1.55 V | SR 67/SR 716 SW | D 315 | SR 716 SW | V 315 |
| 317 | 1.55 V | SR 62/SR 516 SW | D 317 | SR 516 SW | V 317 |
| 319 | 1.55 V | SR 64/SR 527 SW | D 319 | SR 527 SW | V 319 |
| 321 | 1.55 V | SR 65/SR 616 SW | D 321 | SR 616 SW | V 321 |
| 329 | 1.55 V | -/SR 731 SW | D 329 | SR 731 SW | V 329 |
| 333 | 1.55 V | -/SR 610 SW | - | - | - |
| 335 | 1.55 V | -/SR 512 SW | - | SR 512 SW | V 335 |
| 337 | 1.55 V | -/SR 416 SW | - | - | - |
| 339 | 1.55 V | -/SR 614 SW | - | - | V 339 |
| 341 | 1.55 V | -/SR 714 SW | - | - | V 341 |
| 344 | 1.55 V | SR 42/SR 1136 SW | D 344 | SR 1136 SW | V 344 |
| 346 | 1.55 V | -/SR 712 SW | - | SR 712 SW | V 346 |
| 350 | 1.55 V | SR 42/SR 1136 W | D 350 | - | V 350 |
| 357 | 1.55 V | SR 44/SR 1154 W | D 357 | SR 44 W | V 357 |

Batteries — you can't seem to avoid them in electrical or electronic equipment that's not connected to the mains. Increasingly, people will want to go 'mobile' and use as much equipment as possible on the road, without having to plug into the mains for power. Fortunately, notebooks, mobile telephones and lots of other equipment contain batteries that can be topped up many times over. In some equipment, however, rechargeable batteries make little or no sense. For example, if you have a portable radio that's only used occasionally, you're better off using a set of alkaline batteries than any type of rechargeable battery, simply because the latter would be empty (due to self-discharging) after a few months even if the radio is not used at all. By contrast, a good battery will last several years!

Batteries are also commonly used in watches and calculators. These come in a staggering variety so equivalent types may be very hard to find. Fortunately, many battery manufacturers and suppliers have extensive product information available enabling customers to find an equivalent type quickly and easily.

On the **Varta** main website [1] you can press the 'battery search' button to start searching for an equivalent if you have the type number, or a suitable type if you know the equipment or its requirements. An extensive list is available covering most commonly sold equipment.

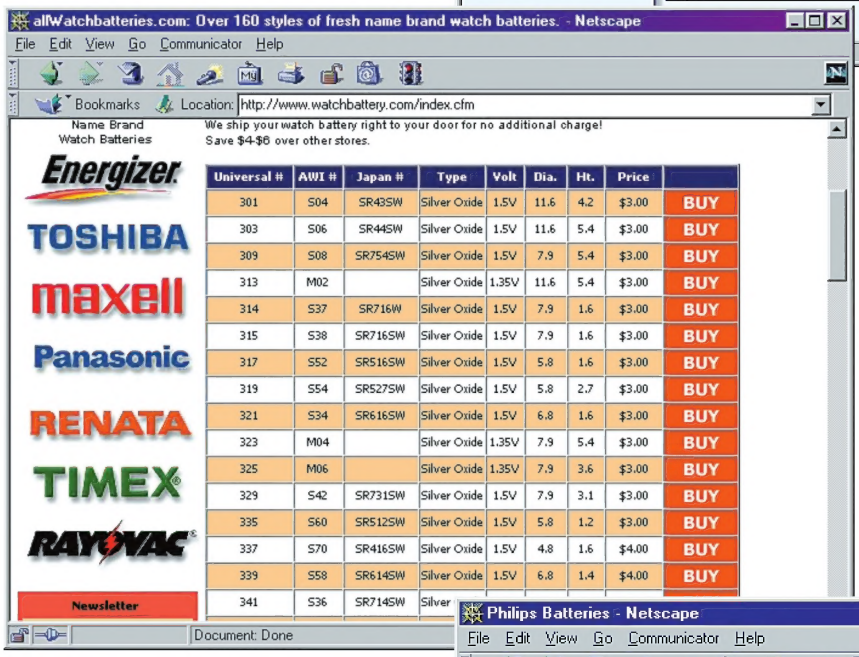
In Europe, **Eveready** batteries are usually sold under the brand name 'Energiser'. The European website [2] starts with a fairly heavy but pleasant flash animation. From there, you can go to the Product Selector, which is subdivided into different types of equipment.

Electronic component giant **Philips** have set up a separate website for their battery products [3]. To find suitable batteries, you click on

one of the battery types. This produces an overview of alternative type numbers.

**Duracell**, the manufacturer of those well-known gold & black alkaline cells, also supplies a fair amount of product information via the web [4]. Here we find the products in an overview arranged by battery type and user applications (alkaline, lithium, watches, hearing aids, etc.). Having clicked on one of these, an extensive and clearly laid out overview appears with equivalent type numbers of other manufacturers.

**Renata** is a Swiss battery brand that belongs to the Swatch group.




| Universal # | AWI # | Japan # | Type | Volt | Dia. | Ht. | Price | |
|---|---|---|---|---|---|---|---|---|
| 301 | S04 | SR43SW | Silver Oxide | 1.5V | 11.6 | 4.2 | $3.00 | BUY |
| 303 | S06 | SR44SW | Silver Oxide | 1.5V | 11.6 | 5.4 | $3.00 | BUY |
| 309 | S08 | SR754SW | Silver Oxide | 1.5V | 7.9 | 5.4 | $3.00 | BUY |
| 313 | M02 | | Silver Oxide | 1.35V | 11.6 | 5.4 | $3.00 | BUY |
| 314 | S37 | SR716W | Silver Oxide | 1.5V | 7.9 | 1.6 | $3.00 | BUY |
| 315 | S38 | SR716SW | Silver Oxide | 1.5V | 7.9 | 1.6 | $3.00 | BUY |
| 317 | S52 | SR516SW | Silver Oxide | 1.5V | 5.8 | 1.6 | $3.00 | BUY |
| 319 | S54 | SR527SW | Silver Oxide | 1.5V | 5.8 | 2.7 | $3.00 | BUY |
| 321 | S34 | SR616SW | Silver Oxide | 1.5V | 6.8 | 1.6 | $3.00 | BUY |
| 323 | M04 | | Silver Oxide | 1.35V | 7.9 | 5.4 | $3.00 | BUY |
| 325 | M06 | | Silver Oxide | 1.35V | 7.9 | 3.6 | $3.00 | BUY |
| 329 | S42 | SR731SW | Silver Oxide | 1.5V | 7.9 | 3.1 | $3.00 | BUY |
| 335 | S60 | SR512SW | Silver Oxide | 1.5V | 5.8 | 1.2 | $3.00 | BUY |
| 337 | S70 | SR416SW | Silver Oxide | 1.5V | 4.8 | 1.6 | $4.00 | BUY |
| 339 | S58 | SR614SW | Silver Oxide | 1.5V | 6.8 | 1.4 | $4.00 | BUY |
| 341 | S36 | SR714SW | Silver | | | | | |


*[1] Varta:*
http://www.varta.com
*[2] Energizer:*
http://www.energizer-eu.com
*[3] Philips:*
http://www.philipsbatteries.com
*[4] Duracell:*
http://www.duracell.com/Our_Products/comprehensive.html
*[5] Renata:*
http://www.renata.com/watch-and-calculator/cref-guide-en.html
*[6] WatchBattery:*
http://www.watchbattery.com/index.cfm


They are best known for their watch and calculator batteries. Renata's website [5] has extensive information on batteries for these applications, with tables showing equivalent type numbers of practically all battery manufacturers and watch brands.

Finally, we should not forget to mention an overview of particular interest to those of you who are on the lookout for a fresh battery for a watch. Under the name Watchbattery.com [6], **JewelryService** runs a web site exclusively covering watch batteries. The site lists more than 160 different types of watch battery in a carefully arranged overview.

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